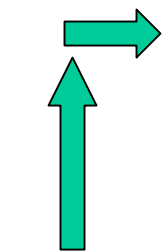


power outage recovery for the muon detectors

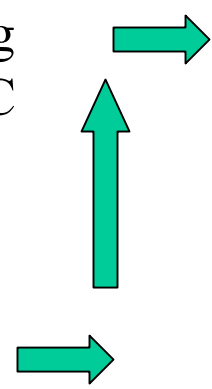
- This only recovers the sequence of events
- recovery of high voltage control is covered at the following links
 - [muon scintillator](#)
 - [muon chambers](#) (+CCR/CES/CPR)
- Guidelines for checkout can be found [here](#)

power outage recovery for chambers

- detector systems
 1. restore HVAC to collision hall
 2. restore gas flow
 3. restore IFIX globally
 4. restore IFIX then HVMON++ on muon3pc
 5. wait for stable conditions in collision hall (temperature, humidity ...)
 6. turn detector HV to standby
 7. turn detector HV to operating
 8. establish stable operating HV
 - front end readout
 1. restore crate power
 2. check f.e. power supplies (preamplifier, ASD crate & TDC crate LV)
 3. initiate TDC readout with any sort of run
 4. muon calibration run (BMU, CMP/X)
 5. cosmic ray runs with detector checkout using consumer monitors
- 

you can proceed in parallel until you reach the steps where the green arrows indicate linkage

power outage recovery for counters

- detector systems
 1. restore power to collision hall
 2. restore IFIX globally
 3. restore IFIX then CCU and pisabox monitoring on muon scintillator PC
 4. check CCU LV
 5. download CCUs (BSU/TSU/CSP top & bottom) and pisaboxes (CSP walls, CSX)
 - front end readout
 1. initiate TDC readout with any sort of run
 2. muon calibration run (BSU/TSU)
 3. cosmic ray runs with detector checkout using consumer monitors
- 
- ```
graph LR; subgraph "detector systems"; D1[1. restore power to collision hall]; D2[2. restore IFIX globally]; D3[3. restore IFIX then CCU and pisabox monitoring on muon scintillator PC]; D4[4. check CCU LV]; D5[5. download CCUs (BSU/TSU/CSP top & bottom) and pisaboxes (CSP walls, CSX)]; end; subgraph "front end readout"; F1[1. initiate TDC readout with any sort of run]; F2[2. muon calibration run (BSU/TSU)]; F3[3. cosmic ray runs with detector checkout using consumer monitors]; end; D3 --> F3; D5 --> F3;
```

you can proceed in parallel until you reach the steps where the green arrows indicate linkage